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873**23** 8/111/60/000/001/001/005 B012/B077

AUTHORS:

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TITLE

New Transit Phototelegraphic Equipment

PERIODICAL: Vestnik svyasi, 1960, No. 1 (238), pp. 3-5

TEXT: The presently used system of optical retransmission of photo telegrams shows some basic disadvantages which are pointed out in this article. An enterprise of the electrotechnical industry and the TeMIIS developed a new transit photographic instrument during the last three years. In the beginning of 1959, models of this system were tested and judged favorably by the komissiva Ministerstva svyasi SSSR (Commission of the Ministry of Communications). This equipment consists of special instruments for magnetic recording, control receivers, and commutating equipment for phototelegraphic connections. The magnetic recording instrument represents the main part which records the phototelegraphic signals in the transit point on a standard magnetic tape; from this tape, the signals are transmitted from one point and received at another with an equal equipment.

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New Transit Phototelegraphic Equipment

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The retransmission of such phototelegrams is ensured without decreasing the contrast and sharpness by applying single-line magnetic recording of modulated phototelegraphic signals by such an instrument which is free of amplitude frequency distortions. Comparing the half-tone characteristics as shown in Fig. 1 for the whole transmitting channel at the optio (curve 1) and the magnetic (curve 2) retransmission shows the great advantages of the latter. The experience shows that it is possible to retransmit each phototelegram five times magnetically. Another advantage of this method is the shorter time necessary to pass a certain point, and the possibility to re-use the magnetic tape a few hundred times. The commutating equipment is considered as another important element. The scheme and the construction of the new equipment, and its operation, are described. Tests of some models in operation established the following: 1) Instruments for magnetic recording with a 300-4000 cyclos' frequency range and a dynamic range of up to 40 db do not cause any substantial half-tone distortion if used through several magnetic retransmissions (up to five times), and hardly decrease the resolving power of the phototelegraphic instrument. 2) The mechanical shift caused by this instrument after five retransmissions is no more than +0.1 mm, which is quite

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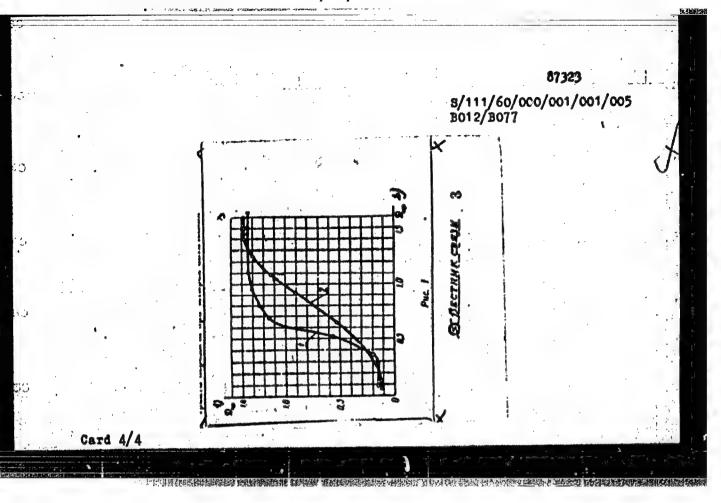
New Transit Phototelegraphic Equipment

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acceptable. 3) The non-uniform sensitivity of magnetic tapes diminishes the quality of transmitted half-tone phototelegrams if retransmitted four times and more but does not cause any significant distortion of dash phototelegrams if retransmitted 1-3 times. 4) The new equipment makes it possible to improve the quality of transmission and the output factor with a good stability. The unnecessary universality and complicity of the circuits, the complex construction of the elements, and the insufficient utilization of connection channels at double transmission are considered to be of disadvantage. The editors of the periodical point out that it is planned to discuss the new system at the meeting of the Tekhnicheskiy sovet Ministerstva syyazi SSSR (Technical Council of the Ministry of Communications USSR). There are 2 figures.

Legend to Fig. 1: 1) Dreception, 2) Dtransmission

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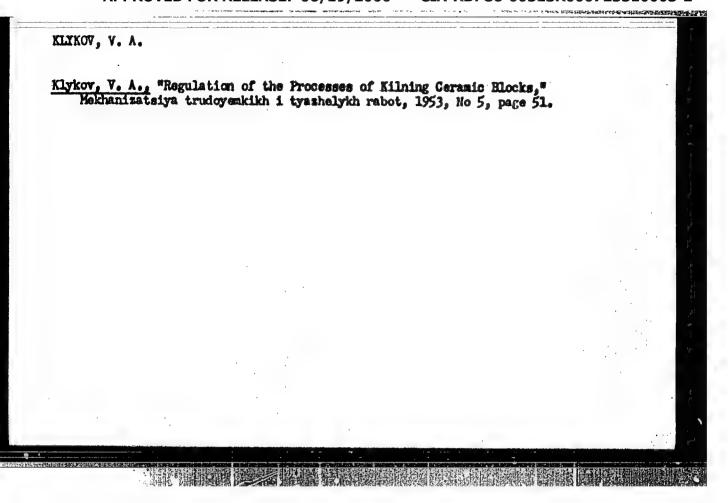


APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310003-2"

NOVIKOV, Vasiliy Vasil'yevich; EUBOVSKIY, Leonid Isaakovich;
PRAMNEK, German Fritsevich; KOGAN, Valentina Solomonovna;
KLYKOV, Samen Ivanovich; MAUMOV, Pavel Alekseyevich;
YEMEL'YANOV, Gennadiy Alekseyevich; VORONIM, Mikolay
Isidorovich; SERGEYCHUK, K.Ya., red.; GRIGOR'YEV, B.S., red.;
PORTUSHENKO, A.D., red.; MOVIKOV, V.V., otv. red.; SHOLYAM,
G.L., red.; MARKOCH, K.G., tekhn. red.

[Manual on electric communications; telegraphy] Inshenermotekhnicheskii spravoohnik po elektrosviasi; telegrafiia. [By] V.V.Novikov i dr. Moskva, Svias'isdat, 1963. 654 p. (MIRA 16:5)

(Telecommunication—Handbooks, manuals, etc.)
(Telegraph—Handbooks, manuals, etc.)



KLYKOV, V. M.

Bee Culture

Bee Culture on state fruit farms. Pchelovodstvo 29, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

RELEN'KIY, Il'ya Markovich; KLIKOT, V.M., red.; SAVKL'YKVA, Z.A., tekhred.

[Payments to collective and state farms for grain and seeds requived] Rachety s kolkhosani i sovkhosani za prinistye zerne i semena. Moskva, Izd-vo tekhn.i ekon.lit-ry po voprosan mukosol'no-krupianci i kombikormovci promyshl. i elevatorno-akladakogo khoz.. 1959. 118 p.

(Grain trade)

(Grain trade)

KLYKOV, V. M., Cand Tech Sci -- (diss) "Performance of supporting rigidity rings in steel pipelines of the GES." Moscow, 1960. 16 pp; with charts; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev); 200 copies; price not given; (KL, 22-60, 137)

SEREBRENNIKOVA, G. A.; MITROPANOVA, T. K.; KLYKOV, V. N.; SARYCHEVA, I. K.; PREGEDAZHEMSKIY, N. A.

Lipides. Part 17: Synthesis of the glyceride composition of safflower oil, Elmr. eb. khim. 33 no.1:60-62 '63. (MIRA 16:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni N. V. Lomonosova.

(Oils and fats) (Glycerides)

KLYKOV, V.N.; SEREBRENNIKOVA, G.A.; PREOBRAZHENSKIY, N.A.

Lipids. Part 26: Synthesis of several saturated triglycerides of milk fat. Zhur.org.khim. 1 no.2:253-256 F *65.

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.

HE TOTAL OF THE PERSON PERSONNEL BY STREET

MITROFINOVA, T.K.; KRATEVSKIY, A.A.; SEREBRENNIKOVA, G.A.; KLYKOV, V.N.; ZVONKOVA, Ye.N.; ZAPESOCHNAYA, G.G.; SARYCHEVA, I.K.; PREOBRAZNENSKIY, N.A.

Complete synthesis of the glyceride base of vegetable oils and animal fats. Dokl. AN SSSR 160 no.1:133-136 Ja 165.

(HIRA 18:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova. Suhmitted July 4, 1964.

KLYKOV, Ya.L., insh.; GORDOW, S.B., insh.; YELISAVETSKAYA, I.S., insh.
BUTENKO, V.L., insh.

Lining a crusher chamber with the help of a hanging scaffold. Shakht. stroi. 7 no.3:20-21 Hr²63 (MIRA 17:7)

1. Shakhtoprokhodcheskoye upravleniya No.1. Krivobasshakhtoprokhodka (for Klykov). 2. Krivorozhskiy filial Ukrainskoge navehno-issledovatel*skogo instituta organizatsii i mekhanizatsii shakhtnogo stroitel*stva (for Butenko).

AGLIFOHOV, Mikhail Ivanovich [deceased]; KUTOV, Torvit mendidat jakhaichetinkh nauk, redaktor; BOEROVA, Te.N., tekhaicheskiy redaktor

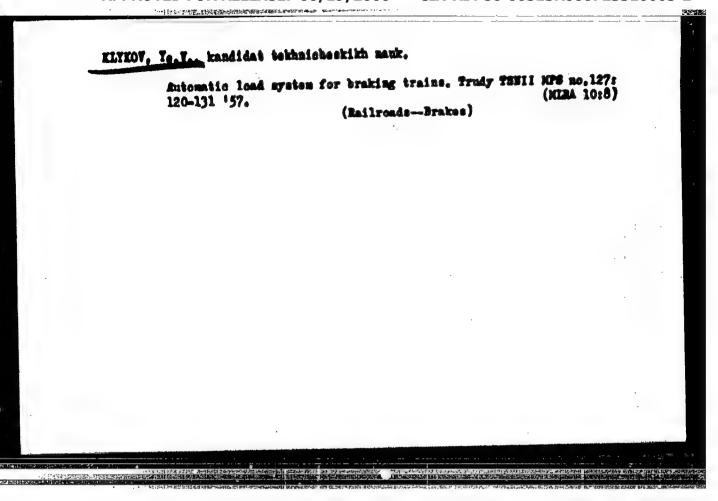
[Manual for inspectors of automatic equipment on railroads] Pamiatka osmotrahchiku-avtomatchiku. Isd. 6-os. Moskva, Gos. transp. shel-dor. isd-vo, 1956. 63 p. (NIBA 9:12) (Railroads--Brakes)

KLYKOV, Tevgeniy Vladimirorinh: EFYLOV, Vladimir Ivanevich; VISOGRADOV,
VESTLIY Mikhaylovich; RAVLOVSKIV, E.G., inshener, redakter;
IUDZOM, D.M., teknicheskiy redaktor

[MTZ-135 Matrosov system automotive brakes] Avtomaticheskii
tormos eistemy matrosova MTZ-135. Moskva, Gos. transp. shel-der.
isd-ve, 1956. 186 p.

(RIBA 9:9)

(Rallroads--Brakes)

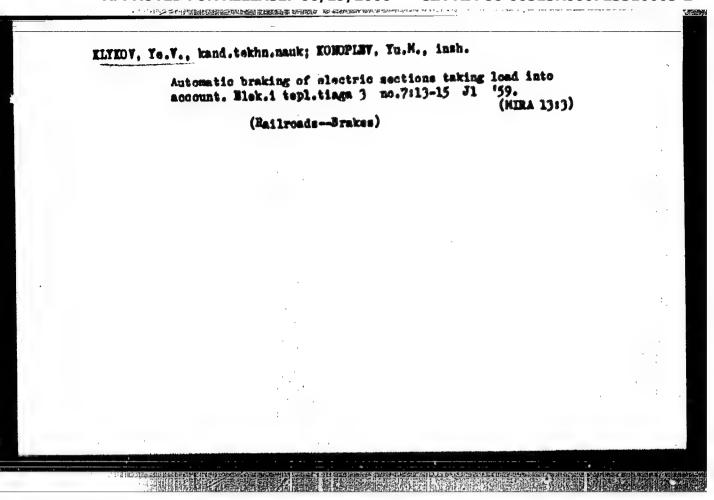


GRINIO, Vyacheslav Adol'fovich; KRYLOV, Vladimir Ivanovich; OZOLIN, Aleksandr Kerlovich; KLYKOV, Ye.V., kand.tekhn.nsuk, red.; VERINA, G.P., tekhn.red.

[Faucets of a railroad engineer; provisory numbers 222 and 254] Krany machinista; uslovnye nomera 222 i 254. Moskva, Gos.transp.shel-dor.isd-vo, 1959. 44 p. (MIRA 12:12) (Railroads-Brakes)

How air distributor for passenger trains. Vest.TSHII MPS 18 10.2157-59 Mr '59. (MIRA 1216)

(Railroads-Trains-Ventilation)

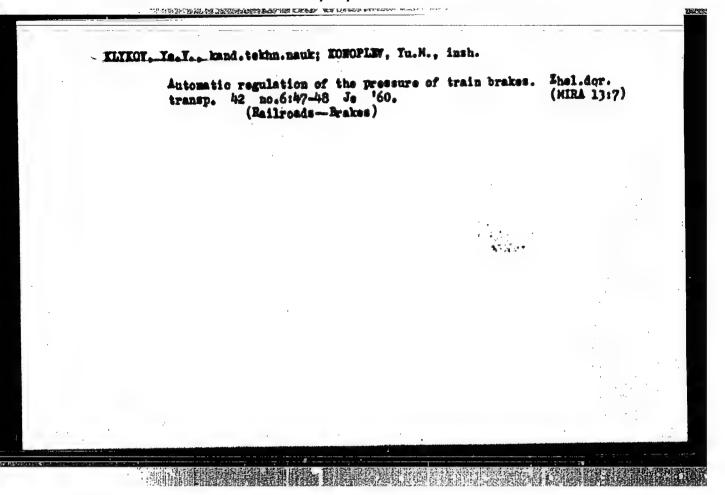


AGAPONOV, M.I.; PEROV, A.B.; KLYKOV, Ye.V., red.; BOBROVA, Ye.B., tekhn.red.

[Quide for an inspector of automatic equipment] Rukovodstvo osmotrahohiku-avtomatchiku, Isd.5., perer, i dop. Moskva, Yees. isdatel'sko-poligr.ob'edinenie M-va putei soobahoheniia, 1960.
171 p.

(Railroads--Brakes) (Automatic control)

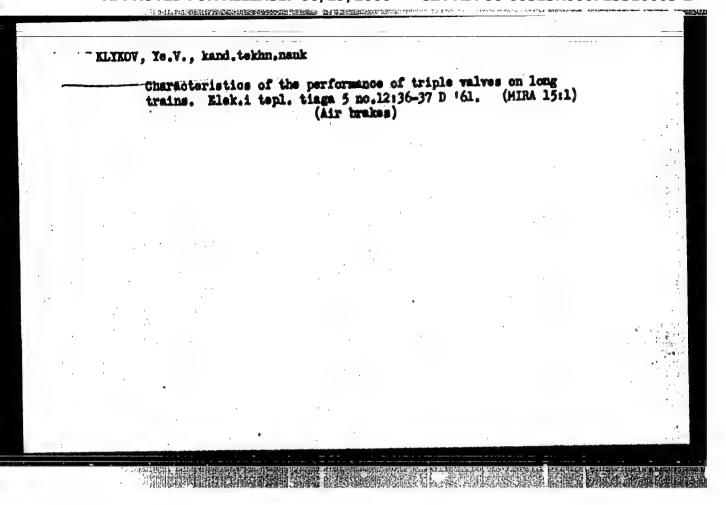
Frov. No.270-002 air dietrubuter for freight train brakes.
Vest. TSUII MPS 19 no.1:16-20 '60. (MIRA 13:4)
(Railroads-Brakes)

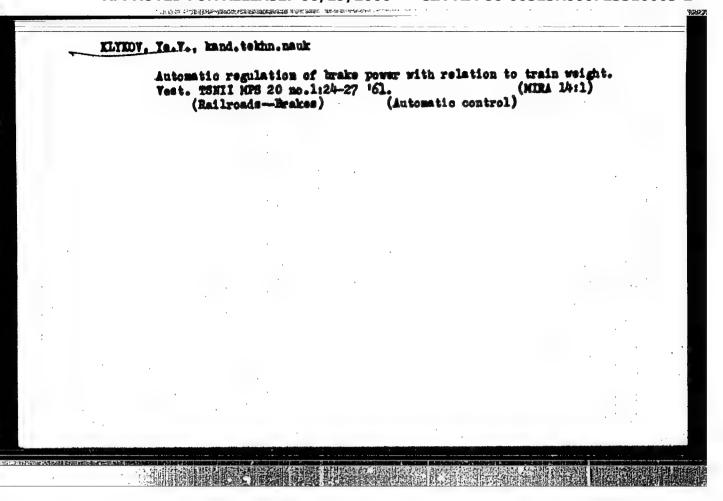


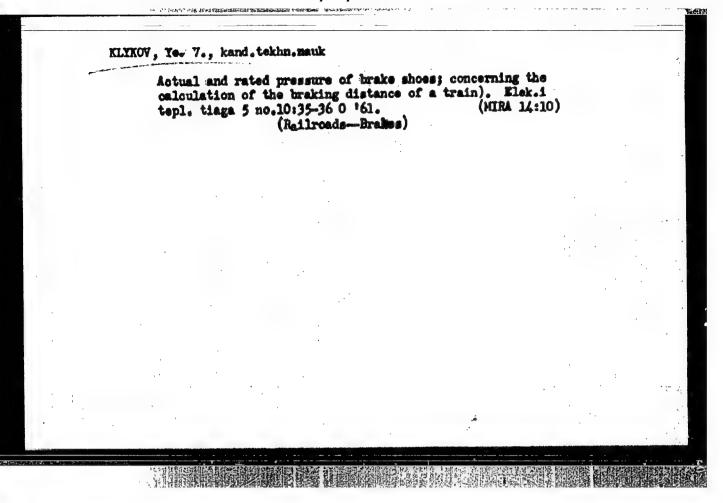
KAZARINOV, Valentin Makarovich, dektor takhm. nauk, prof.; KARVATSKIY, Bronislav Igudvigovich, dektor takhm. nauk, prof.; IASDNISTV, V.F.,
kand. takhm. nauk; KARMINSKIY, D.E., prof., reteensent; BOROVSKIY,
G.M., kand. tekhm. nauk, reteensent; HINOV, Is.V., kand. takhm. nauk,
red.; KHINOV, P.A., takhm. red.

[Designing and testing automatic brakes] Raschet 1 issledovanie avtotormozev. Moskva, Vess; isdatel'sko-poligr. ob*edinenia M-va putei
soobshcheniia, 1961. 231 p. (MIRA 14;8)

(Railroads—Brakes)







1 41 TO 1977. 大學中國的學習的學習的學習的學習的學習的學習的 医环状腺病病 "你说,你你还是一个不好。

KINKOV, Yevgeniy Vladimirovich; KOZYULINA, Raida Ivanovna; BRAYLOVSKIY,
H.G., insh., red.; VASIL'IKVA, N.W., tekhn. red.

[Automatic regulators of freight car brake systems (conditional No.265-003)] Avtomaticheakie regulatory grusovykh reshimov tormomenia (usl. No.265-002 usl. No.265-003). Hoskva, Transsheldorisdat, 1962. 38 p. (MIRA 1519)

(Railroads-Freight cars-Brakes)

KAZARIHOV, V.M., doktor tekhn.nauk; KLYKOV, Ye.V., kand.tekhn.nauk; CREBENYUK, P.T., kand.tekhn.nauk

Solving brake calculation problems for various operation types. Vest. TSMII MPS 20 no.5:30-33 '62. (MIRA 15:8) (Railroads-Brakes)

CONTRACTOR SERVICES SERVICES AND SERVICES SERVIC

KLYKOV, Yevgeniy Vladimirovich, kand. tekhn.nauk; KAZARIMOV, V.M., prof., retsensent; BOROVSKIY, G.M., kand. tekhn. nauk, red.; SOBAKIN, V.V., insh., red.; KHITROVA, M.A., tekhn. red.

[Braking of trains]Tormoshenie poesda. Moskva, Transsheldorisdat, 1962. 139 p. (MIRA 16:1)

(Railroads—Brakes)

KAZARINOV, V.M.; GREBENTUK, P.T.; KLYKOV, Te.V.; FILIPPOVA, L.S., red.; VASIL'YEVA, M.M., tekhn. red.

[Methods for braking analysis calculations] Metody tormos-reschetov. Moskva, Transsheldorizdat, 1962. 55 p.

(NIRA 16:4)

(Railroads--Brakes)

KLYKOVA. A.T.

Nethod of extraction of foreign bodies from the deep layers of the cornea. Yest. oft. 33 no.6128-31 N-D '54. (MIRA 8:1)

1. Is kafedry oftalmologii (sav. prof. H.L.Krasnov) Tšentral'nogo instituta usovershemstvovaniya vrachey.

(CORMEA, foreign bodies,
extraction)

(FORMION BODINS,
oormea, extraction)

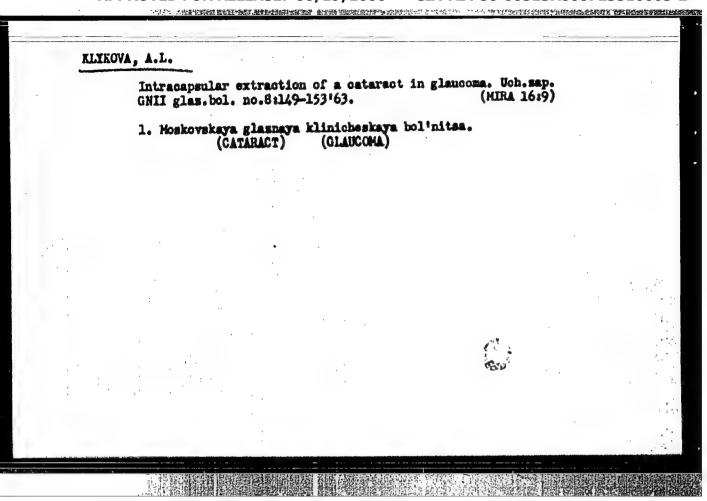
KLYKOVA, A.L., memistent, LIBNAN, Ye.S., ordinator

Largrange-Holt-Filatov operation in glancoma [with summary in English]. Vest.oft. 71 no.6125-31 E-D '58 (MIRA 11:11)

1. Kafedra oftal'mologii (sav. - saslushennyy dayatel' nauki prof. M.L. Krasnov) Tšentral'nogo instituta usovershenstvovaniya vrachay. (QLAUCOMA, surg.

UCOMA, surg. iridenolaisis with solerectomy, Lagrange-Holt-Filatov method (Rus))

ILIKOVA, A.L. Comparative evaluation of certain intracapsular methods of cataract extraction and selection of a surgical method. Vest. oft. 74 no.217-14 *61. (CATARACT)



。 1947年17年17年18年1月日 新国大学院院院长期的经验的企业,在经验社会的影響,但是是有关于大学的大学的一个企业,并不是是自己的主义,但是是他们的政策的

KINKOVA, A.L., kand. med. nauk; KRASHOV, M.L., prof., nauchnyy rukovoditel*

Modification of the method of sliding intracapsular extraction of a cataract. Shor, nauch, trud. SOGHI no.14:122-124 '63. (MIRA 18:9)

1. Moskovskaya glasnaya klinicheskaya bol'nitsa.

KLYKOVA, G., S., SALIMGARNTEVA, P.G.; POPOVA, M.I.; HURBAN-GALETHVA, D.Ch.;
HIMEOVA, G.G.

Chemical composition of primary tar from Chorenkhove ceal. Part 3.
Detailed group and functional composition of neutral compounds,
Trudy Vost.-Sib.fil.AN 885R. no.3119-24 155. (MERA 9:4)
(Chorenkhove Ceal Basin-Geal-tar products) (Chromategraphic analysis)

POFOVA, N.I.; SALIMOARNIEVA, F.G.; LLIMOVA, C.G.; SHOROKHOVA, N.V.; DIREARCALBITATA, D.Kh.; KAIRCHIES, T.V.

Chemical composition of primary tar from Cherenthove ceal. Part 4.

Detailed group and functional composition of neutral compounds in
the liquid-phase hydrogenated tar. Trudy Vest.-Sib.fil.AN SSSR, no.3:
(NIRL 9:1)

(Cherenthove Coal Basin--Coal-tar products)(Chromatographic analysis)

ZALUKAYEV, L.P.; KLYKOVA, L.V.

Synthesis of 1,3-indandione derivatives. Zhur. ob. khim. 35 no.1: 184-185 Ja 165. (MIRA 18:2)

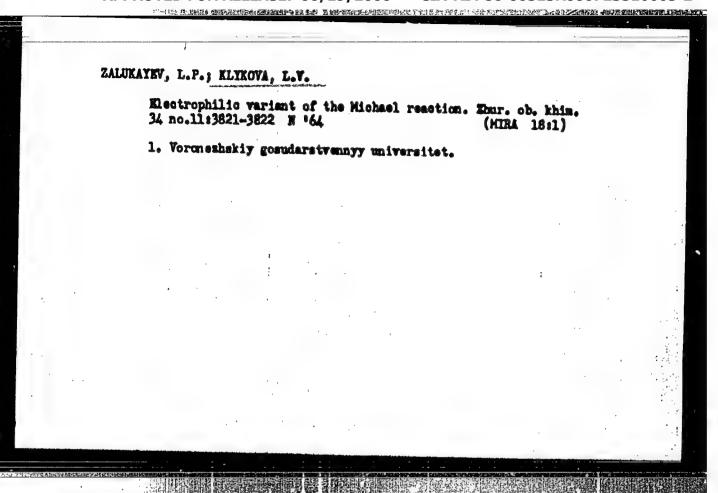
1. Voronezhskiy gosudarstvennyy universitat.

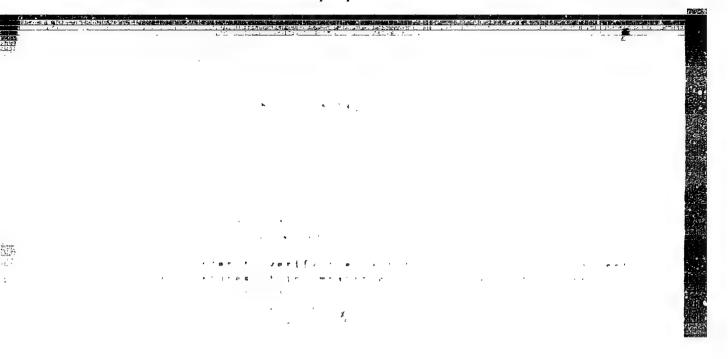
BAKSHI, O.A., kand. tekhn. nauk, dotsent; KLYKOVA, G.I., inah.

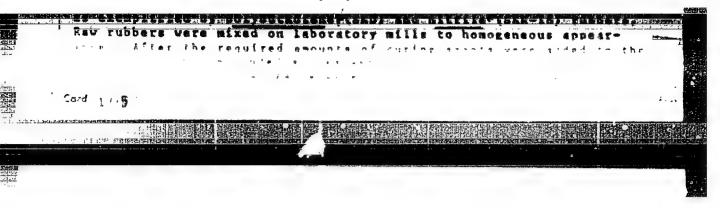
Investigating volume trio velding stresses in butt velds of thick parts with various geometry of edge dressing. Inv. vys. ucheb. sav.; mashinostr. no.5:187-194 '65.

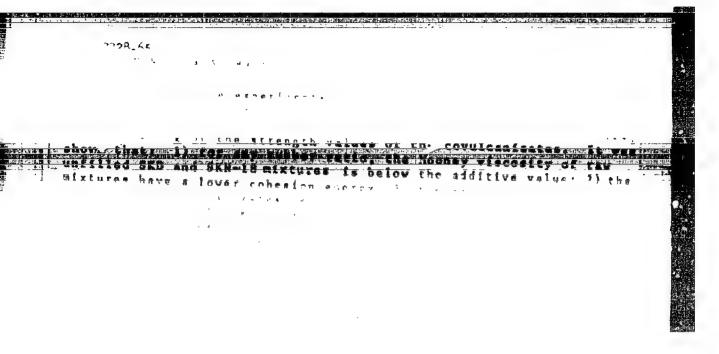
(MIRI 18:11)

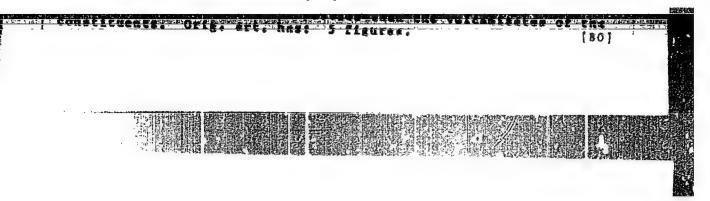
1. Chelyabinskiy politekhnicheskiy institut.

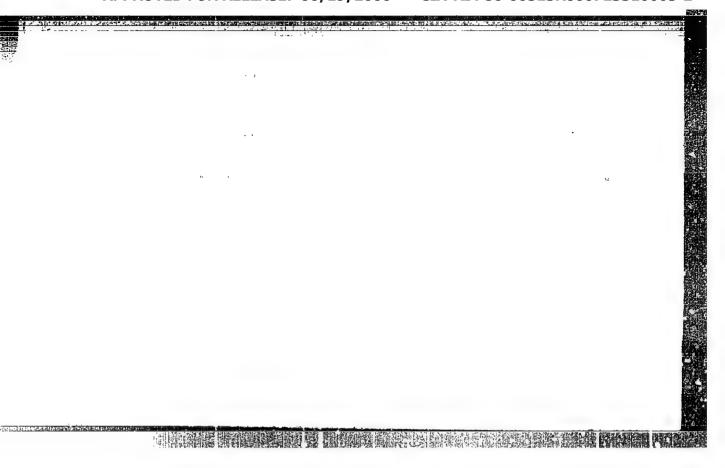












GRIDUNOV, I.T.; PRYAKHINA, S.F.; KLYKOVA, V.I.; VAN SYU-KHUA [Wang Heiu-hua]

Production of noncombustible rubbers. Isv.vys.ucheb.sav.;khim.i Thim.tekh. 5 no.3:484-490 *62. (MIRA 15:7)

· 中华中华斯林特 医乳球球状腺素医神经结肠 翻译 医软髓结果 医心脏性疾病 含义的现在分词 计自由计算机设计设计设计设计设计设计设计 经通过的复数 医神经神经病 医神经神经病

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova, kafedra tekhnologii pererabotki polimorov i tekhnologii resiny.

(Rubber)

ELYKOVA, Z.D.

The regime of atmospheric precipitation in Alma-Ata. Prody KasHIGMI no.11:30-39 '59.

(Alma-Ata-Precipitation (Neteorology))

UPINAGAMENTOV, M.M., kand.geogr.neuk; BERLYAND, T.O., kand.geogr.neuk;

REZVERKHIY, Sh.A., kand.fis.-matem.neuk; RAYDAL, M.Kh., kand.

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neuk; KLYKOVA, E.D., starshiy neuchnyy sotrudnik; MEN'SHIKOVA,

Ye.A., mladshiy heuchnyy sotrudnik; GEL'MOGL'IS, M.F., starshiy

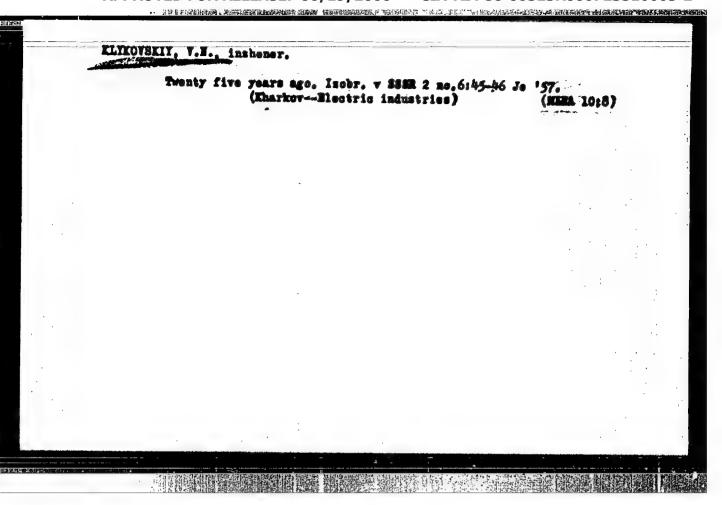
neuchnyy sotrudnik; PROKHOROV, I.I., starshiy neuchnyy sotrudnik;

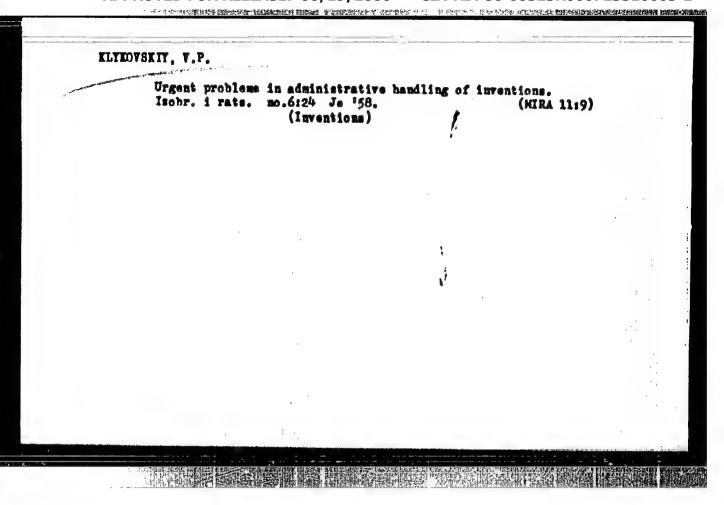
TKACHENKO, M.S., mladshiy neuchnyy sotrudnik; EHDANOVA, L.P.,

red.; ERAYHINA, M.I., tekhn.red.

[Climate of Kasakhatan] Klimat Kasakhatana. Pod red. A.S. Uteshave. Leningrad, Gidrometeor.isd-vo, 1959. 366 p. (MIRA 13:5)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologichaskoy slushby. 2. Kasakhakiy pedagogichaskiy institut
(KasPI) (for Utimagambetov). 3. Glavnaya geofizichaskaya observatoriya im. A.I. Voyeykova (GGO) (for Berlyand, Gol'taberg). 4. Kamakhakiy nauchno-issledovatel'skiy gidrometeorologichaskiy institut KamHIGKI) (for Besverkhniy, Baydal, Kusnetsov, Uteshav, Klykova, Men'shikova, Gel'mgol'ts, Prokhorov, Thachenko). 5. Institut geografii Akademii nauk SSSR (IG AM SSSR) for Shvyreva).
(Kasakhatan--Climate)





E/126/62/014/004/010/017 E111/E160

AUTHORS :

Dutchak, Ya. I., Hykolaychuk, A.G., and Klym, N.H.

TITLE

An X-ray investigation of the structures of certain

metallic liquids.

PERIODICAL: Fizika metallov i metallovedenije, v.14, no.4, 1962,

548-554.

TEXT! It is considered that the diffraction analysis of liquids is satisfactorily developed, and even complex liquids present no great difficulty as regards making the experimental measurements. The theoretical interpretation of the results is still uncertain. One-component liquids can be treated by either of two methods: a) the positions of the diffraction maxima can be compared with those in curves from solids having the same first coordination sphere, or b) the theoretical scattering curve can be calculated for an assumed radial distribution by the method of Prins-Glauberman and compared with the experimental. In general these methods agree for materials which are close-packed in the solid state. Only the second method is suitable for loosely-packed structures. The first method does not enable small changes to be Card 1/3

····(1915年中国的背景,是我们们的推准,但是我们的对象的主要是一位是对于我们的主义的主义的主义的主义的主义的主义的主义的主义的主义的主义的主义的主义,不**对不可能,他也是主义的主义的**

An X-ray investigation of the ...

5/126/62/014/004/010/017 E111/E160

followed (such as changes with temperature). Hetals which are not close-packed in the solid state have been studied: e.g. Al, Pb, Bi, Sb and Ga. The temperature variation of the coordination number (C.N.) for each of these liquid metals was found. In general, the C.N. falls with increasing temperature but Bi shows an anomaly where there is a maximum at 300 °C; Sb is similar. Bi appears to be hexagonal closely packed in the liquid state. Al and Pb are face centered cubic. For Ga the maximum C.N. is at the m.p. Binary liquid alloys were studied in spite of the difficulties in interpreting the results. Sn/Bi, 4:1; Bi/In, 4:1; Sn/Cd, 2:1; and Ga/Sn, 11.5:1, were examined. In the first two cases it was assumed that the two kinds of atoms were statistically distributed. A model_of the average structure of the two separate liquids was used. [Editor's note: in tables 2 and 6, Zn appears instead of In but this is probably a mistake.] These liquid alloys seem to be hexagonal, closely packed. The second pair of alloys are of eutectic composition and for Sn/Cd the distribution appears as in the solid at the m.p. but statistical at higher temperatures; for Ga/Sn the distribution is statistical as regards type of atom. Card 2/3

An X-ray investigation of the ...

5/126/62/014/004/010/017 E111/E160

The APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723310003-2

ASSOCIATION: L'vovskiy ordena Lenina gosudarstvennyy universitet

(L'vov Order of Lemin. State University, imeni Iv. Franko)

SUBMITTED: February 13, 1962. DUTCHAK, Ya. I.; MYKOLAYCHUK, A. G.; KLYM, N. M.

X-ray investigation of the structure of certain liquid metals. Fig. met. i metallowed. 14 no.4*548-554 0 162. (MIRA 15:10)

1. L'vovskiy ordena Lenina gosudarstvennyy universitet imeni Iv. Franko.

(Liquid metals-Metallography)

DUTCHAK, Ya.I., KLYM, N.M.; MIKOLAYCHUK, A.G.

Structure and properties of the In2Bi alloy in the liquid state. Fiz.met.i metalloved. 14 no.5:787-789 H '62. (MIRA 15:12)

1. Livovskiy gosudarstvennyy universitet im. I.Franko. (Indium-bismuth alloys-Metallography)

3/126/62/014/005/012/015 E073/E435

AUTHORS: Dutchak, Ya.I., Klym, N.M., Mykolaychuk, A.G.

TITLE: On the structure and properties of IngBi alloys in

the liquid state

PERIODICAL: Fizika metallov i metallovedeniye, v.14. no.5, 1962.

787-789

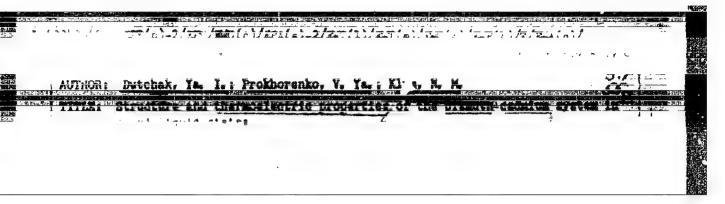
TEXT: The electric conductivity and kinematic viscosity were measured and the curves of the intensity of X-ray scattering and radial distribution of the atoms determined. Conclusions: At the fusion temperature the atoms of In and Bi in IngBi are distributed in the same way as in the solid state. Redistribution of the atoms takes place between the fusion temperature and 120°C and at this temperature the atoms in IngBi are distributed statistically. Further temperature rise leads to a regular decrease in the average coordinate number similar to that occurring on the transition of solid solutions into the liquid There are 5 figures and 1 table.

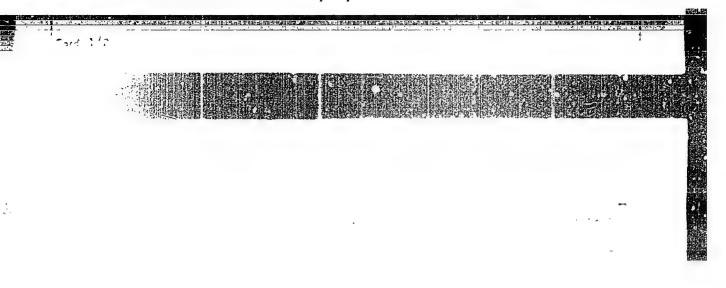
ASSOCIATION: L'vovskiy gosudarstvennyy universitet im. Iv. Franko

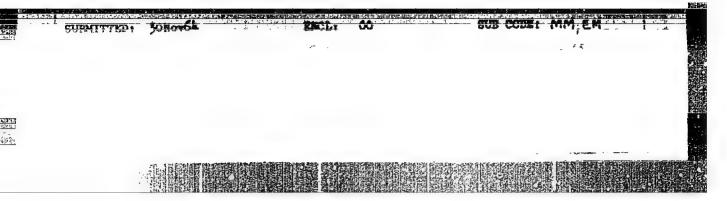
(L'vov State University imeni Iv. Franko)

SUBMITTED: March 28, 1962

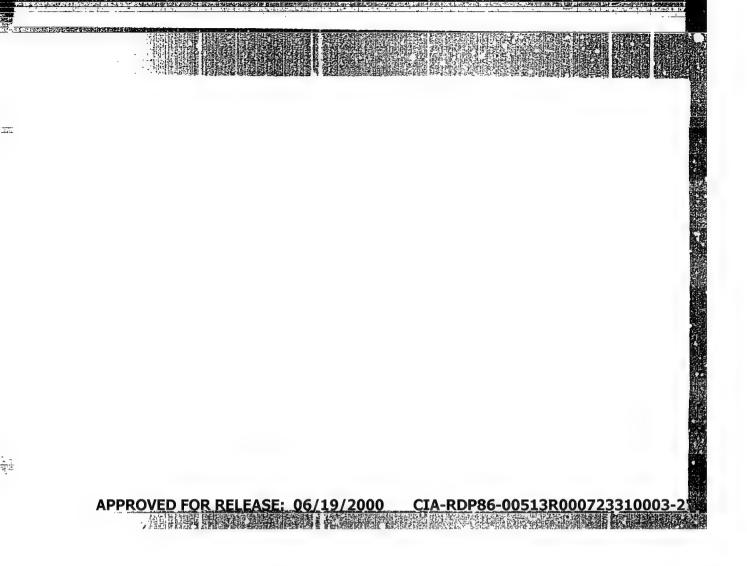
Card 1/1

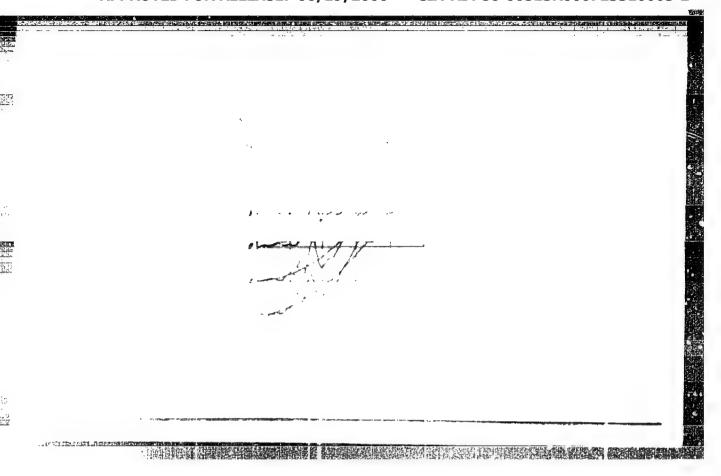






ALCESSION RK: APSOSSAIS JD/WW/JC S/0016/65/039/003/0766/0768





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L 23115-66 EWT(m)/EWP(w)/EPF(m)-2/T/EWP(t) IJP(e) JD/WW/JG
ACC NR: AP6006863 SOURCE CODE: UR/0181/66/008/002/0598/0599

AUTHOR: Dutchak, Ya. I.; Prokhorenko, V. Ya.; Klym, N. M.; Gadzevich, K. Ye. ORG: L'vov State University im. Iv. Franko (L'vovakiy gosudarstvennyy universitet)

TITIE: Structure and electric properties of alloys of the systems indium-gallium and gallium-tin in the regions of melting and the liquid state

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 598-599

TOPIC TAGS: indium alloy, gallium alloy, tin alloy, alloy phase diagram, alloy system, thermoelectric power, electric resistance, x ray diffraction enalysis

ABSTRACT: To obtain quantitative data on the structure of the liquid alloys the authors have measured the concentration dependence of the absolute thermoelectric power and of the electric resistivity of 15 alloys of different compositions for each system. From an analysis of the plotted results, in conjunction with the plots of the state diagrams, it is concluded that in the case of the gallium-tin system the sutectic composition is transformed into a physical solution with statistical distribution of atoms of different sorts at temperatures below 90C. For the indium-gallium system, the statistical distribution of the atoms is characterized at temperatures on the order of 80C. These conclusions are in full agreement

Card 1/2	
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ACC NR: AP/005323

SOURCE CODE: UR/0181/66/008/012/3463/3466

AUTHOR: Dutchak, Ya. I.; Prokhorenko, V. Ya.; Klym, N. N.

ORG: L'vov State University im. I. Franko (L'vovskiy gosudarstvennyy universitet)

TITLE: Singularities in the structure of alloys of the tin-antimomy system in the liquid state

SOURCE: Fizika tverdogo tela, v. 8, no. 12, 1966, 3463-3466 .

TOPIC TAGS: antimony exactining alloy, tin base alloy, liquid state, thermoelectric power, matter structure, carrier density

ABSTRACT: In view of the little attention paid in the past to the liquid state of the Sn-Sb system, the authors investigated by x-ray diffraction analysis the structure of a liquid alloy containing 8.8 at. \$50, using as the structure-sensitive property the absolute thermoelectric power, which was investigated in a wide range of temperatures using 12 liquid alloys of the system. In addition, the structure of the 8.8 alloy was investigated at 255 and 415C with the aid of x-ray diffraction. The radial distribution of the atoms in the liquid alloys was determined by the Fourier method from the scattering intensity curves. At low antimony concentrations, the obtained isotherms were smooth curves, in agreement with the x-ray structure analysis, indicating that the atoms are statistically distributed. At 65 at. \$50, corresponding to the high-temperature limit of the intermetallic β phase, a maximum appears on the isotherm curve. This maximum is attributed to partial retention of directional

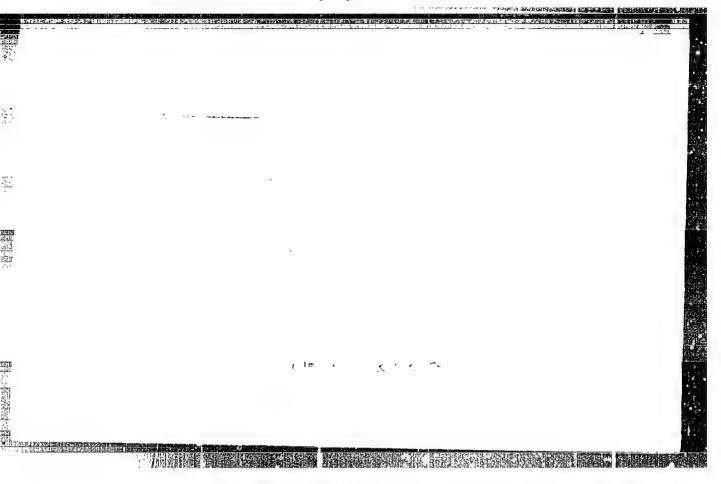
Card 1/2

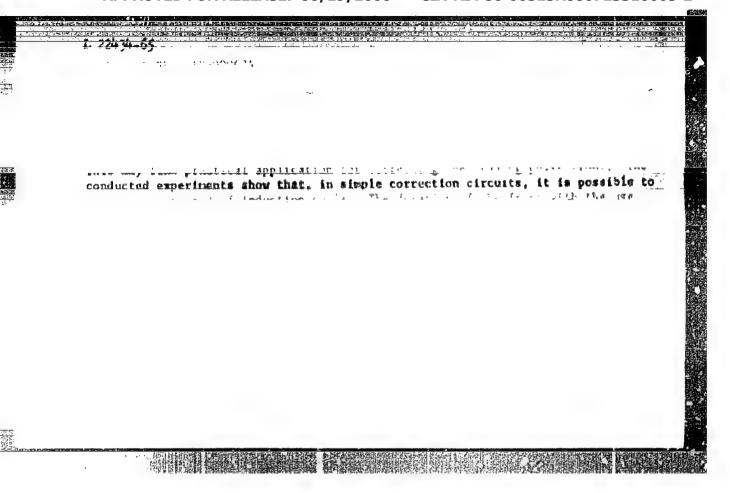
ACC NRI AP7005328

bonds. This assumption is confirmed by the large sensitivity of the thermoelectric power to the carrier density. It was also noted that the thermoelectric power of molten alloys with high antimony concentrations decreases with temperature. This result is connected with the highly developed covalent bonding of the antimony in the solid state and the sharp increase in the free-electron density upon melting. Orig. art. has: 3 figures, 1 formula, and 1 table.

SUB CODE: 20/ SUBM DATE: 04 Jan66/ ORIG REF: 007/ OTH REF: 005

Cord 2/2





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KLYMISK, Bronishua SURNA'E, Given Names

Country: Poland

Academic Degrees:

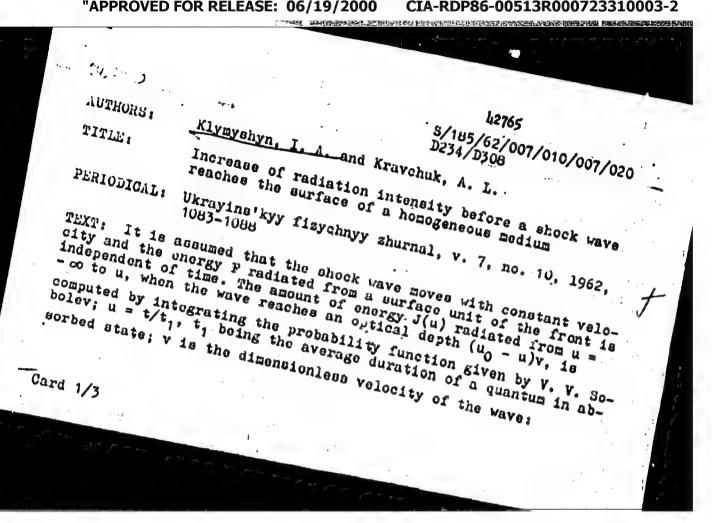
Affiliation:

Source: Warsaw, Modycyna Weterymaryina, Vol XVII, No 7, July 1961, pp 437-440.

Data: "Proteins and Nonprotein Nitrogen in the Semen of the Domestic Fowl."

Authors:

PYTASZ, Marian, Dr., Department of Physiological Chemistry (Zaklad Chemistry (Zaklad Chemistry (Zaklad Rolnicza), Wroclaw, Director, Acting Profit (NANDOKANTY) Drivers, Michigan Profit (NANDOKANTY) Drivers, Michigan College of Agriculture, Wroclaw, Director: Prof.



Increase of radiation ..

$$J(u) = \frac{P}{v^{2}(1-a^{2})} \left[q_{1}e^{-(u_{0}-u)v\sqrt{\alpha_{1}}} + q_{2}e^{-(u_{0}-u)v\sqrt{\alpha_{2}}} + q_{3}e^{-(u_{0}-u)v\sqrt{\alpha_{3}}} \right]$$

Here $a^2 = 1 - \lambda$, λ is the relative amount of scattered energy, α_1 ,

$$(a^2 + x^2)^2 + v^2 x^2 (1 + x^2)^2 = (x^2 + \alpha_1)(x^2 + \alpha_2)(x^2 + \alpha_3)$$
 (7)

 Q_1 , Q_2 , Q_3 depend on these roots, and on v and a. Simplified expressions are obtained for several special cases. If the velocity

8/185/62/007/010/007/020 D234/D308

Increase of radiation ...

is 100 km/sec and the density $n=10^{12}~\rm cm^{-3}$ brightness increases e times in 10^{-5} sec near spectral line frequency. The above expression does not apply to rarefied media if the frequency is near that of a spectral line. The authors thank Professor S. A. Kaplan for the formulation of the subject of the paper.

ASSOCIATION: L'vivs'kyy derzhuniversytet im. Iv. Franka (L'viv

State University im. Iv. Franko)

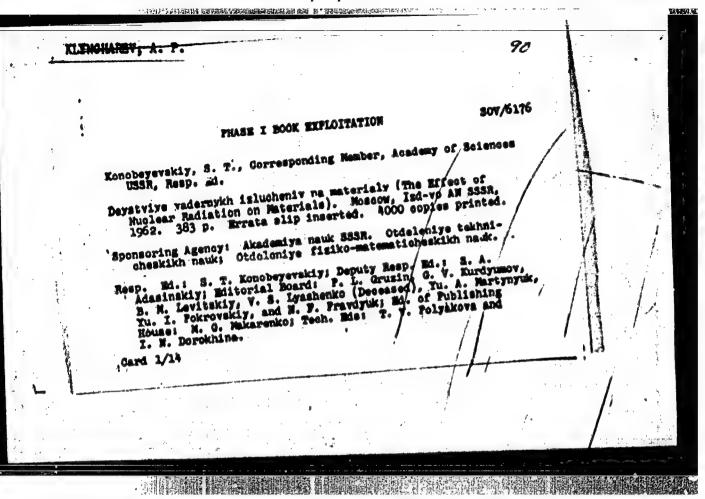
SUBMITTED: March 2, 1962

Card 3/3

PITALZ, N.; KLYHIUK-CHRIMONSKA, B.

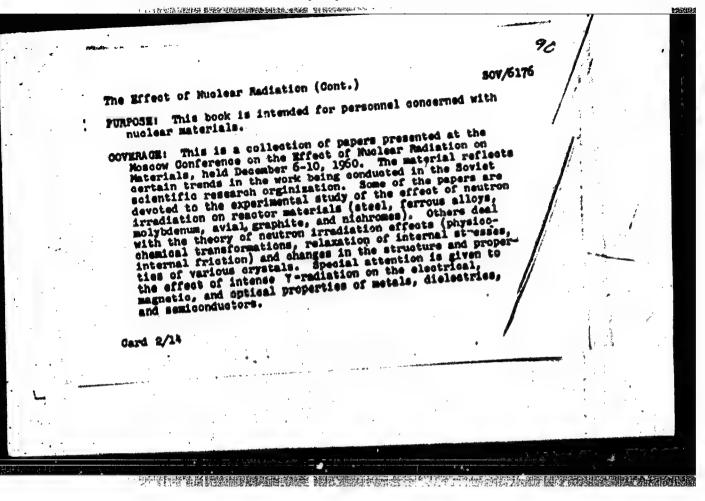
Mitrogenous substances in the semen of cooks. Zessyty problemowe post nauk roln no.31:179-182 161.

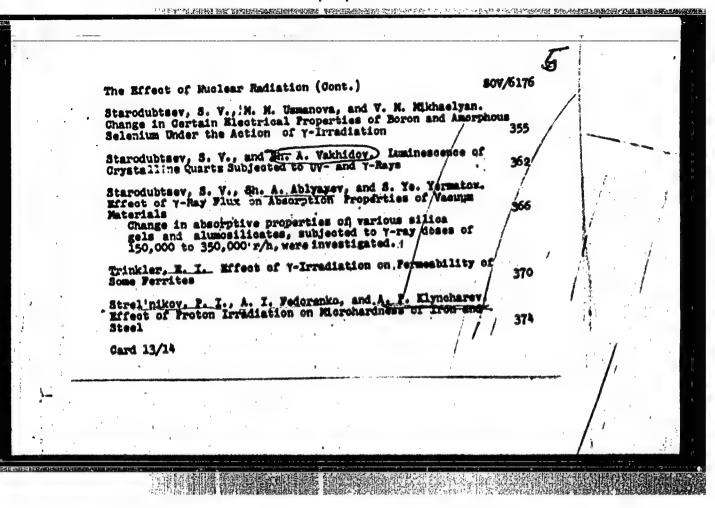
1. Katedra Chemii Fisjologiosnej, Wydsial Weterynaryjny, Wyssaa Sakola Rolnicsa, Wroclaw; Kierownik: Zastepoa prof. dr. F. Wandokanty Katedra Ogolnej Hodowli Zwiersat, Wydsial Zootechniki, Wyssaa Sakola Rolnicsa, Wroclaw. Kierownik: prof. dr. R. Olbrycht.



"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723310003-2





HIGE-SKIY, O.V.; ILTICHARITA, O.A., redaktor; ŒIBOVA, N.P., tekinleheskiy redaktor.

[Specialized ichthyology] Shastnais libiologiis. Izd. 2., ispr. i dop. Noskva, Sovetskais asska, 1954, 458 p. (NIRA 7:7) (Ichthyology)

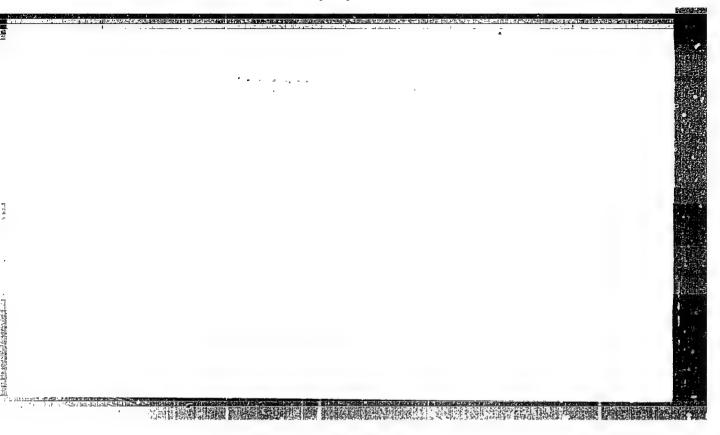
Winter defense. No 12.

Tankist, No 12, 19h8.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723310003-2

KLINCHNIEUW, H. C. USSR/Electronics - Conductivity of selenides PD-567 Card 1/1 : Pub. 153-7/28 Author : Klynchnikov, N. G. Title : Asymmetry in the conductivity of certain selenides Periodical : Zhur tekh. fis. 24, 833-836, May 1954 Abstract : Studies the rectifying properties of the selenides CuSe, CuSe, Mg Se. Observed that cupric selenide in contact with magnetium after a suitable electric treatment is a satisfactory new rectifier, its advantage being its very small resistance in the conducting direction and the possibility of its operation at high temperatures. Institution : : September 18, 1953 Submitted



8/194/61/000/012/080/037 D273/D301

AUTHORS:

Gurevich, M. D., Klynkachev, V. A., Sobakin, M. A. and Yakovlev, S. I.

TITLE:

Ultrasonic diagnostic apparatus for the study of soft

tissues Y3A-4 (U2D-4)

PERIODICAL:

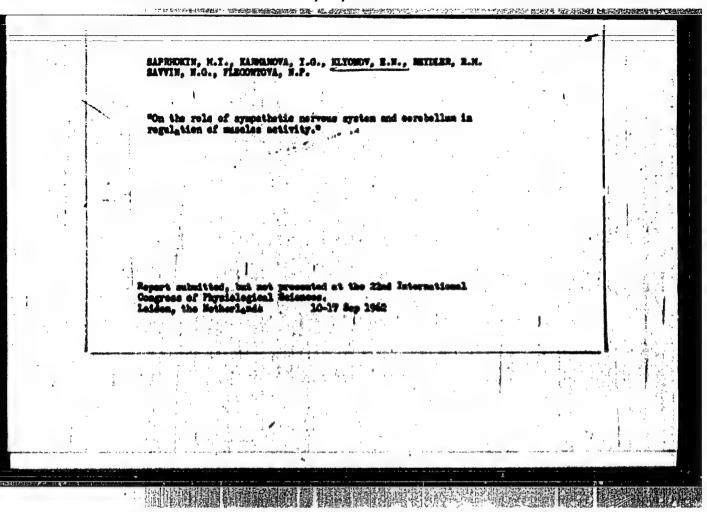
Referativnyy zhurnal, Avtomatika i radioelektronika,

no. 12, 1961, 22, abstract 12E122. ("Novost1 med.

tekhn. 1960, no. 6, 3-17)

TEXT: The possibilities of ultrasonic diagnostics are examined. The diagnostic apparatus UZD-4 designed in the BHNNMNuO (VNIIMI10) is described. It is noted that one of the most important parameters of the instrument - the maximum depth action - is almost entirely determined by the ultrasonic damping coefficient in tissues and to a lesser degree depends on the power of the transmitter, the sensitivity of the receiver and other factors. The UZD-4 works at frequencies of 2.5; 5; 10 and 15 Mc/s, a launching frequency of 1000 c/s, and a pulse length of 3 microseconds. The depth of sound-

Card 1/2



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KLYPIB, A. A.

"Phenomena of Thermal Fatigue and the Mechanism of the Destruction of Heat Resistant Alloys at High Temperatures." Cand Tech Sci, Moscov Order of Lenin Aviation Inst imeni Sergo Ordshonikidse, Min Higher Education USSR, Moscov, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

KLYFIK, A. A.

1486 Yavleriye termicheskoy ustalosti i mekhariza razrysheniya zharoprochnykh splavov pri vysobikh temperaturakh. M., 1954. 14 s. 20 sml (M-Vo vysob. obrazavaniya SSSR. Mak. ordena Lenina aviata in-t im Sergo ordzhonikidze). 100 Ekz. P. ts. -(54-54868)

SO: Knizhmya Letopis', Vol. 1, 1955

Stress determination in a cyclinder by means of experimental temperature measurements. Tepleomergetika 4 no.1:33-34 Ja "57.

1. Heskevskiy aviatoicznyy institut.

(Strains and stresses)

THE STATE OF THE S

AUTHORS: Kishkin, S.T., Doctor of Technical Sciences, Prof. and Klypin, A.A., Candidate of Technical Sciences.

TITLE: Mechanism of disruption of the alloy 31/437 under conditions of operation at elevated temperatures for long durations. (Mekhanizm razrusheniya splava E1437 v usloviyakh dlitel'noy raboty pri povyshennykh temperaturakh).

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1957, No.12, pp. 36-40 (USSR)

ABSTRACT: Available data indicate that creep is accompanied by development of cracks (Refs.1-3). Crack formation due to reduced breaking strength is one of the types of exhaustion of the strength with the progress of time. The reduction of the breaking strength with time is associated with a change in the structure under the influence of temperature and creep along the grain boundaries. In this paper disruption of the alloy 3N 437 at elevated temperatures is investigated and also the influence of forming cracks on the strength properties. Forged rods of the alloy were subjected to heat treatment and at a constant load the time taken to disrupt the Card 1/3 specimen was determined. Tests with periodic heating

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310003-2"

129-12-5/11

Mechanism of disruption of the alloy 31/437 under conditions of operation at elevated temperatures for long durations.

and cooling were made by the same set-up, except that the furnace had a changed design inasmuch as it was possible to subject the loaded specimen to an air blast perpendicular to its axis. The hardness of the melt during isothermal annealing at 700°C for 100 hours increases intensively, as can be seen in Fig.1; no hardness increase was observed at 800°C. The increase in hardness indicates that the strength of the investigated alloy increases as a result of the formation of finer phases which block plastic deformation. The disruption at a constant load cannot be associated with coagulation and with dissolution of hardening phases, for a time interval of 100 hours. Metallographic investigation on specimens which permit observation of the changes in the structure during the tests have shown that, in the case of long duration stresses, fine cracks occur. During the remaining time until disruption, growth of the existing cracks and formation of new ones continues. Fig.2 shows the creep curve of a specimen tested at 800°C with a stress of 25 kg/mm². The graph, Fig. 5, shows the

THE REPORT BEFORE THE TOTAL PROPERTY OF A STATE OF THE ST

Card 2/3 stress of 25 kg/mm2.

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SOV-129-58-6-5/17

AUTHORS: Kishkin, S. T. (Dr. Tech. Sci. Prof.), Klypin, A. A. and Sulima, A. M. (Cands. Tech. Sci.)

TITLE: Influence of the Plastic Deformation on the High Temperature Strength of the Alloy EI437 (Vliyaniye plasticheskoy deformatsii na sharoprochnost' splaya EI437)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 6, pp 18-21 (USSR)

The aim of the here-described work was to study the ABSTRACT: properties of the alloy EI437 after preliminary plastic deformation and to establish the mechanism of failure of this alloy at 500, 700 and 800°C. The technique and the results are described. The authors arrived at the following conclusions: (1) The plastic deformation has an important influence on the service life of dispersion hardened high temperature alloys of the type EI437, reducing the service life or siderably at 700 to 800°C. (2) The influence of plastic deformation is linked with an acceleration of the diffusion processes which form the basis of dispersion hardening and which lead to a decrease in the breaking strength; at low temperatures when there is no appreciable acceleration of the diffusion processes, the factor of breaking up of the grains of the metal into blocks pre-

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310003-2"

AUTHORS:

SOV/129-59-5-3/17 Dr. Tech. Sci. Prof. S.T. Kishkin; Cand. Tech. Sci. Influence of Repeated Heating and Cooling on the Changes A.A. Klypin

TITLE:

in the Properties of Steels and Alloys (Vliyaniye mnogokratnykh nagrevov i okhlazhdeniy na izmeneniye

svoystv staley i splavov) PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Ketallov,

1959, Nr 5, pp 15-19 (USSR) ABSTRACT: The sim of the work described in this paper was to study

the influence of cyclic heating and cooling on the mechanical properties of certain steels and of the alloy BI-1+37. The heating was effected by induction, using a

200 kc/sec current supplied from a 60 kW tube oscillator. The specimen was cooled with water or with air, the feed

rate of which was controlled by two electric valves. The circular specimens of 5 mm diameter, which were used

for short and long duration tests, were subjected to heating and cooling according to a pre-determined regime.

Prior to the tests the specimens were heat treated so as

to exclude the influence of previous heat treatment. The Card 1/3 specimens were heated on a 8 to 10 mm long section in the

Influence of Repeated Heating and Cooling on the Changes in the Properties of Steels and Alloys

middle and in this section the temperature was maintained practically equal at the various points of the surface. The heating temperature for the steels was 550, 700 and 780, 8500C; for the stainless steel IKh18N9T and for the alloy EI-437 the heating temperature was 8000C. The heating duration was 2 to 4 seconds. In Figs 1 to 4 the changes are graphed of the various mechanical properties of the tested steels and alloys as a function of the number of heating cycles. On the basis of the obtained results the following conclusions are arrived at:

1) As a result of cyclic heating above 780°C and cooling, the strength will decrease with increasing content of the carbon on the steel. This is attributed to a decrease in the tensile strength of the material with increasing carbon content.

2) The drop in strength and plasticity with increasing number of heating cycles of all the materials investigated in these experiments is attributed to the formation of microcracks at the surface of the specimens.

3) Appearance of microcracks during heating below the critical range is associated with thermal

Card 2/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310003-2"

80V/129-59-5-3/17

Influence of Repeated Heating and Cooling on the Changes in the Properties of Steels and Alloys

stresses occurring during rapid cooling. An increase in the cycle temperature and also in the cooling speed leads to a more intensive development of sracks. 4) In the alloy BI-437 the cracks were exclusively along the grain boundaries. In other investigated materials the cracks were detected along the boundaries as well as along the body of the grain.

body of the grain.
There are 5 figures and 5 references, 4 of which are Soviet and 1 German.

RISHRIN, S. T. doktor tekhn. nauk; ELYPIN, A.A., kand. tekhn. nauk;

BIXOLENCO, V.V., kand. tekhn. nauk

Characteristics of metal failure at high temperatures. Truly

MAI no.123:5-16 660. (MIRA 13:8)

(Heat-resistant alloys) (Thermal atresses)

KISHKIM, S. T., doktor tehhn.neuk; KIYPIB, A.A., kand.takhn.nauk;
KARYAKIMA, E.V., kand.tekhn.nauk, BIKOLEMO, V.V.; CHERIOV, N.B.

Investigating the relation of structure and properties of mateirials for gas-turbine blades to the duration of their use.

Trudy MAI no.123:25-34 '60. (NIRA 13:8)

(Oas turbines--Blades)

